Item Checklist

This item checklist is only available for retail market. Completely check your package, If you discover damaged or missing items, contact your retailer.

- ☑ XV915 series mainboard
- ☑ QDI Utility CD
- ☑ 1HD ribbon cable
- ☑ 1 FDD cable
- ☑ User's manual
- ☐ I/O shield(option)
- ☐ USB cable(option)

Notice

The information in this document is subject to change in order to improve reliability, design, or function without prior notice and does not represent a commitment on the part of this company. In no event will we be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or the possibility of such damages.

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If you need any further information, please visit our web-site: "**www.qdigrp.com**".

Certificate of Compliance

CE

The following products have been tested by us with the listed standards and found in compliance with the council EMC directive 89/336/EEC. It is demonstrative for the compliance with this EMC Directive.

Submittor: **QDI Technology Limited**
23Floor, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, HONG KONG
Product: **MotherBoard**
M/N: **XV915**

☑	EN 55022/A1:2000	Limits and methods of measurements of radio disturbance characteristics of information technology equipment
☑	EN 61000-3-2/A14:2000	Electromagnetic compatibility(EMC) Part 3: Limits Section 2: Limits for harmonic current emissions (equipment input current<=16A per phase)
☑	EN 61000-3-3/A1:2001	Electromagnetic compatibility(EMC) Part 3: Limits Section 3: Limits of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current<=16A
☑	EN 55024/A1:2001	Information technology equipment-Immunity characteristics limits and methods of measurement

Signature : Date : 2005.01.01

Printed Name : Wang Dayong Position: General Manager

The statement is based on a single evaluation of one sample of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab.logo.

Declaration of conformity

Trade Name:	QDI Computer (U. S . A.) Inc.
Model Name:	**XV915**
Responsible Party:	QDI Computer (U. S. A.) Inc.
Address:	41456 Christy Street Fremont, CA 94538
Telephone:	(510) 668-4933
Facsimile:	(510) 668-4966
Equipment Classification:	FCC Class B Subassembly
Type of Product:	Mainboard
Manufacturer:	**QDI TECHNOLOGY (HK) Inc.**
Address:	23Floor, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, HONG KONG

Supplementary Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Tested to comply with FCC standards.

Signature : Wang Dayong Date : 2005

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Layout

Be sure to unplug the AC power supply before adding or removing expansion cards, RAM or other system peripherals, otherwise your mainboard and RAM might be seriously damaged.

Be sure to add some Silicone Grease between the CPU and the heatsink to keep them fully contacted to meet the heat sink requirement.

Note:

This manual is suitable for XV915 series of mainboards. Each mainboard is carefully designed for the PC user who wants different features.

-6A: with 6 channel Audio
-L: with onboard 10/100M LAN
-F: with onboard IEEE 1394

Chapter 1

Introduction

XV915 series of mainboards utilize Intel® 915GV/915PE/915PL/915G + ICH6/ICH6R chipset, providing a fully compatible, high performance and cost-effective mATX platform. The new integrated technologies, together with AC'97 audio(2/6-channel), 8 USB, 4 SATA, and ATA100/66/33, give customers an advanced, multimedia solution at reasonable price. It provides 533/800MHz host bus speed to support Intel® LGA775 processors and the DDR333/400 memory. It also provides advanced features such as ACPI function. Suspending to RAM, the optimal implementation of the Advanced Configuration and Power Interface (ACPI) specification, makes the PC's power consumption drop to the lowest possible level and enable quick wakeup.

Key Features

Form factor

- mATX form factor of 244mm x 244mm

Microprocessor

- Supports Intel® LGA(Prescott) processors
- Supports 533/800MHz host bus speed

System memory

- Provides two 184-pin DDR SDRAM interfaces
- Supports dual channel
- Supports DDR333/400 SDRAM
- Supports 256/512Mb/1Gb technology up to 2GB

Onboard IDE

- Supports Independent timing of up to two drives
- Supports Ultra ATA 33/66/100
- One fast IDE interfaces supporting two IDE devices

Onboard LAN(optional)

- 10/100 Mbit/sec Ethernet support
- 10/100 LAN interface built-in on board

USB 2.0

- USB 2.0 compliant, operates at 480Mbps, about 40X times faster than USB 1.1
- Provides 8 USB 2.0 ports

Onboard I/O

- One floppy port supporting up to one 3.5″ floppy drives with 1.44M format
- Two high speed 16550 compatible COMs with 16 byte send/receive FIFO
- One parallel port supports SPP/EPP/ECP/ECP+EPP mode
- Supports PS/2 mouse and PS/2 keyboard
- Provides one IrDA connector
- All I/O ports can be enabled/disabled in the BIOS setup

Onboard Audio

- AC'97 2.3 Specification Compliant
- Provides onboard Line-in Jack, Microphone-in Jack and Speaker-out Jack

6-channel Onboard Audio

- Provides Front left&right, Rear left&right/Line-in Jack and Center&Woofer/Micro phone-in Jack,which can be specified by software

Advanced features

- PCI 2.3 Specification Compliant
- Supports Windows 98/2000/ME/XP soft-off

Onboard SATA

- Four SATA devices including SATA HDD and CDROM/DVD ROM devices
- Supports 150Mbps transfer rate.

BIOS

- Licensed advanced AWARD(Phoenix) BIOS, supports flash ROM, plug and play ready
- Supports IDE CDROM/USB boot up.

Green function

- Supports ACPI (Advanced Configuration and Power Interface) and ODPM (OS Directed Power Management)
- Supports ACPI power status: S0 (full-on), S1 (power on suspend), S3 (suspend to RAM), S4(suspend to Disk, depends on OS) and S5 (soft-off)

Main Expansion Slots and Connectors

Slot/Port (Quantity)	Description
PCI(3)	PCI slots
IDE(1)	IDE port
FLOPPY(1)	Floppy Drive port
DDR(2)	DIMM socket
USB(8)	USB connectors
LAN(1) (optional)	LAN connector
COM(2) (optional)	COM connectors
PARALLEL(1)	Parallel connector
IrDA(1)	IrDA connector
1394(1) (optional)	IEEE 1394 connector

Chapter 2

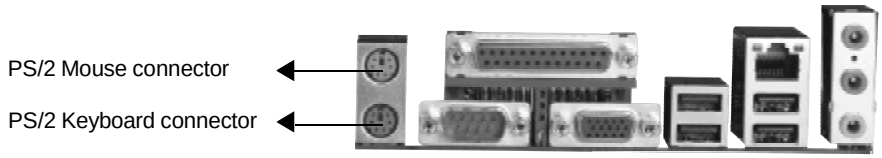
Installation Instructions

This section covers External Connectors and Jumper Settings. Refer to the mainboard layout chart for locations of all jumpers, external connectors, slots and I/O ports. Furthermore, this section lists all necessary connector pin assignments for your reference. The particular state of the jumpers, connectors and ports are illustrated in the following figures. Before setting the jumpers or inserting these connectors, please pay attention to the direction.

External Connectors

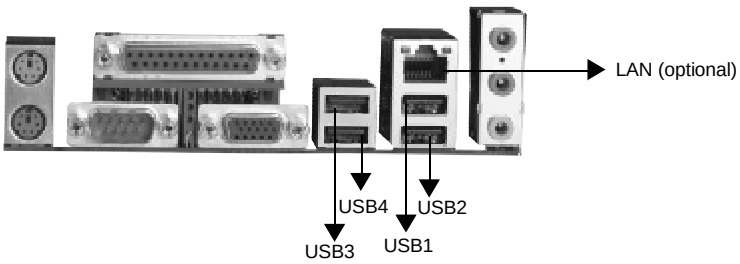
PS/2 Keyboard/Mouse Connector

PS/2 keyboard connector is for the usage of PS/2 keyboard. If using a standard AT size keyboard, an adapter should be used to fit this connector. PS/2 mouse connector is for the usage of PS/2 mouse.



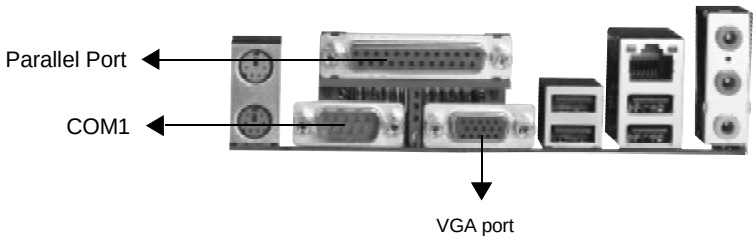
USB1, USB2,USB3,USB4 and LAN Connectors(optional)

Four USB ports are for connecting USB devices. The RJ-45 connector is for onboard LAN.



Parallel Port, Serial Port Connectors (COM1) and VGA Port

The parallel port connector can be connected to a parallel device such as a printer. The serial port COM1 connector can be connected to a serial port device such as a serial port mouse. You can enable/disable them and choose the IRQ or I/O address in “Integrated Peripherals” from AWARD BIOS SETUP. The VGA connector is for output to a VGA-Compatible device.



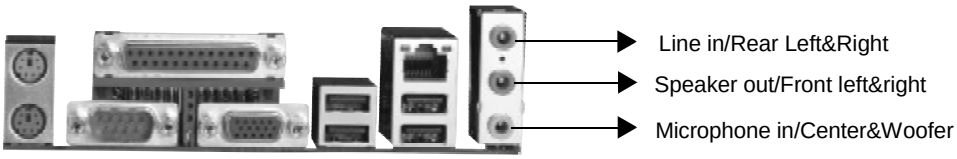
Warning: Be sure to unplug the AC power supply before adding or removing expansion cards or other system peripherals, otherwise your mainboard and expansion cards might be seriously damaged.

Line-in jack, Microphone-in jack and Speaker-out jack

The Line-in jack can be connected to devices such as a cassette or minidisc player to playback or record.
The Microphone-in jack can be connected to a microphone for voice input.
The Speaker-out jack allows you to connect speakers or headphones for audio output from the internal amplifier.

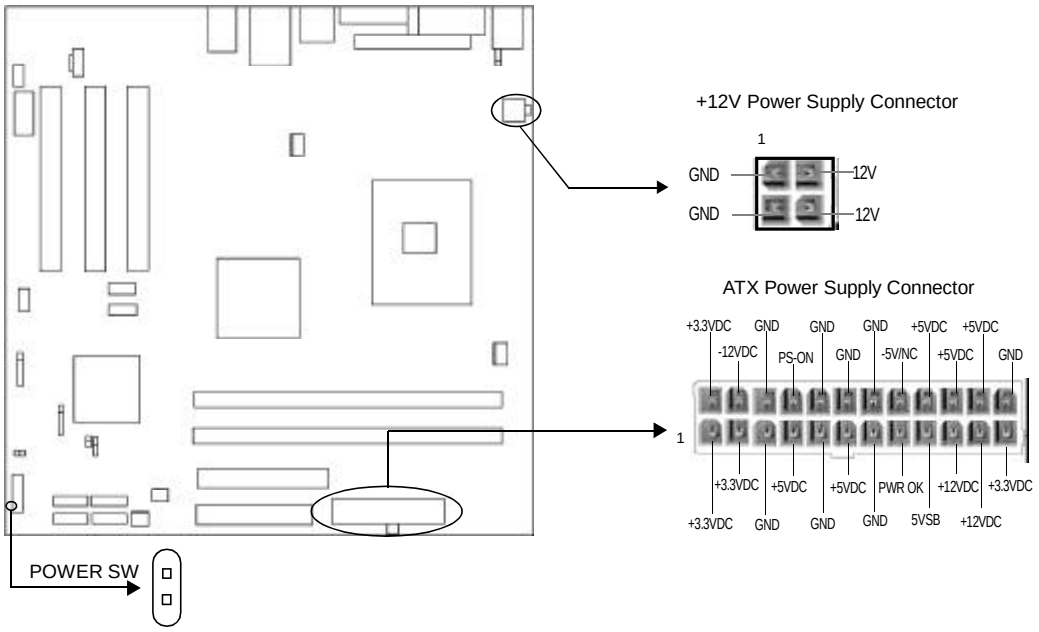
6-Channel Audio

This mainboard utilizes ALC655 chip providing 6-channel Audio, which consists of Front Left, Front Right, Rear Left, Rear Right, Center and Woofer for a complete surround sound effect. When 6-Channel audio is available, the front Left&Right jack can be connected to the Front speskers, the Back Left&Right jack can be connected to the rear speakers and the Center&Woofer jack can be connected to the center speaker and woofer.
Microphone function is offered by F_AUDIO Connector on the mainboard now.
If set 2-Channel Audio mode on -6A mainboard, you can connect two speakers to the Front Left&Right jack, at the same time use the Rear Left&Right jack as Line in jack, and use the Center&Woofer jack as Microphone in jack.



ATX 12V Power Supply Connector & Power Switch (POWER SW)

The power switch (POWER SW) should be connected to a momentary switch. When powering up your system, first turn on the mechanical switch of the power supply (if one is provided), then push once the power switch. When powering off the system, you needn't turn off the mechanical switch, just push once the power switch.
Note: please pay attention to orientation and sequence of pins when using 20 pins ATX power supply connector.



Note:

If you change "Soft-off by PWR-BTTN" from default "Instant-off" to "Delay 4 Sec" in the "POWER MANAGEMENT SETUP" section of the BIOS, the power switch should be pressed for morethan 4 seconds before the system powers down.

Hard Disk LED Connector (HD_LED)

The connector connects to the case's IDE indicator LED indicating the activity status of IDE hard disk. The connector has an orientation. If one way doesn't work, try the other way.

Reset Switch (RESET)

The connector connects to the case's reset switch. Press the switch once, the system resets.

Speaker Connector (SPEAKER)

The connector can be connected to the speaker on the case.

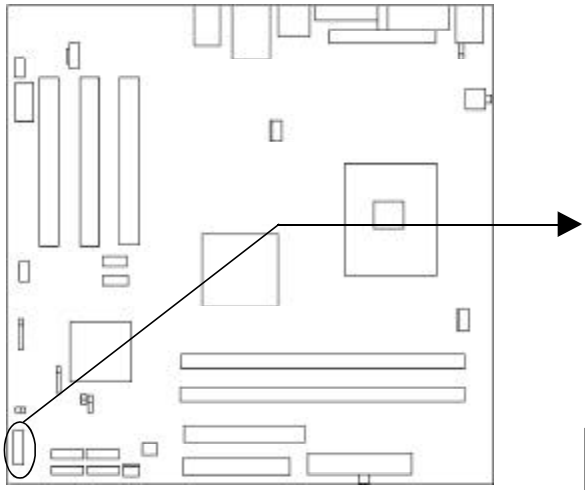
ACPI LED Connector (ACPI_LED)

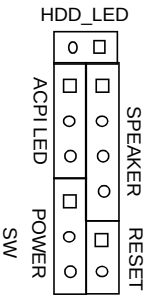
The ACPI LED is a dual-color light with three pins. Pin1and Pin2 drive different color lights. If Pin1 drives the orange light , then, Pin2 drives the green light, the following status will come out. When the system is in S0 status, the LED is green on. When the system is in S1 status, the LED is green blink. When the system is in S3 status, the LED is orange on. When the system is in S4, S5 status, the LED is off.

Power LED Connector (PWR_LED)

When the system is in S0 status, the LED is on. When the system is in S1 status, the LED is off; When the system is in S3, S4, S5 status, the LED is off. The connector has an orientation.

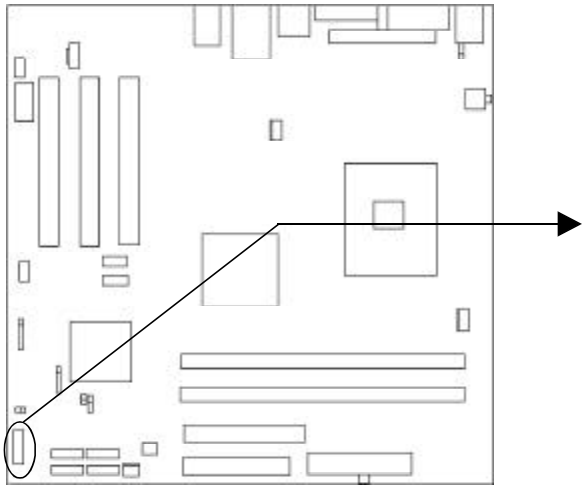
Note: the mainboard provides one panel cable.

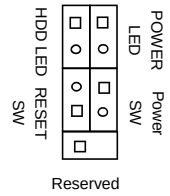




HDD LED(+)		HDD LED(-)	
ACPI_LED	YELLOW(-)	VCC	SPEAKER
	GREEN(-)	GND	
	LED+(VCC)	NC	
POWER SW	GND	SPKDATA	
	POWER	RESET	RESET
	CUT	GND	

After connecting the panel cable, the definition of pins as following:

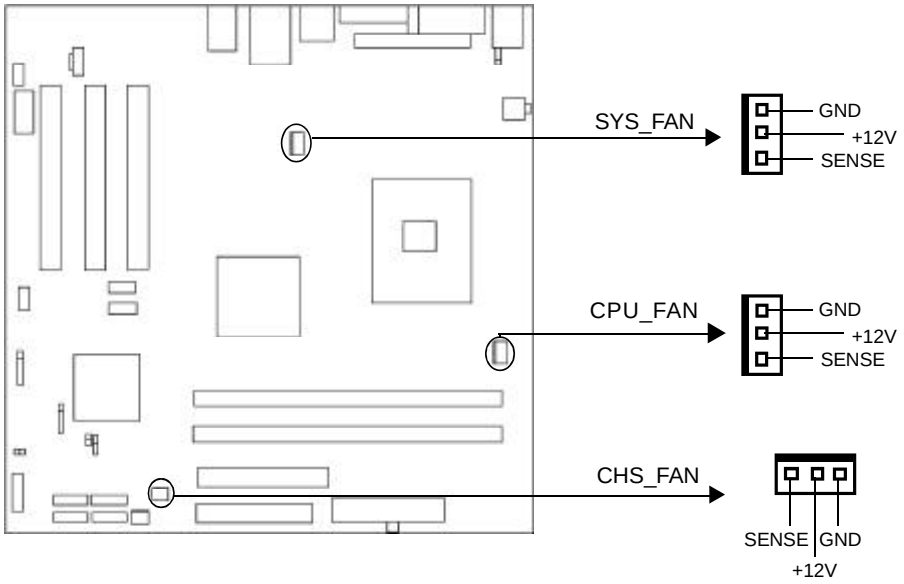




HDD LED	HDD LED(+)	PWR LED(+)	POWER LED
	HDD LED(-)	PWR LED(-)	
RESET SW	G N D	P O W E R	POWER SW
	RESET	G N D	
	RESERVED	EMPTY	

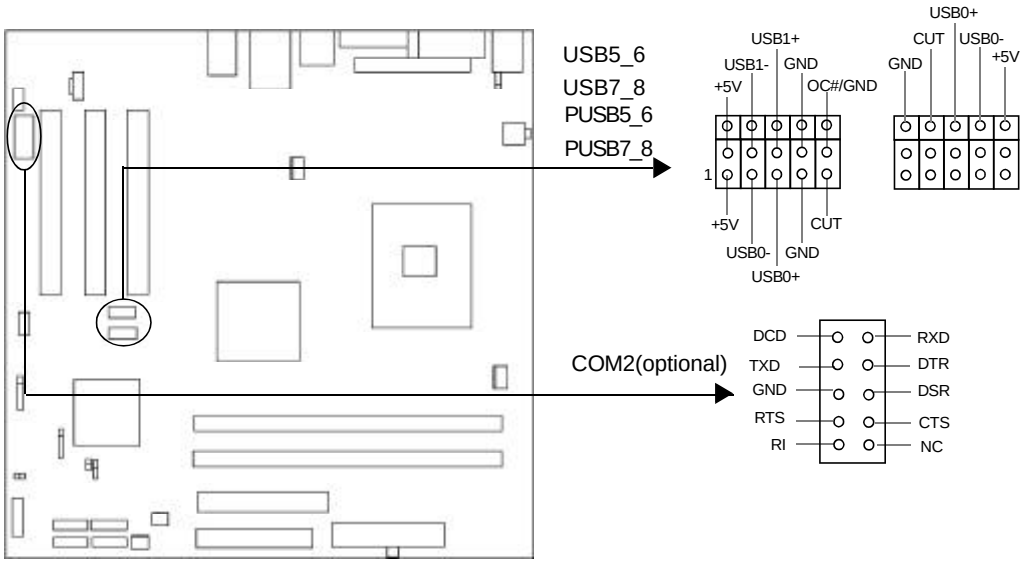
Fan Connectors (CHS_FAN, SYS_FAN and CPU_FAN)

The fan speed of these three fans can be detected and viewed in “PC Health” section of the CMOS SETUP.



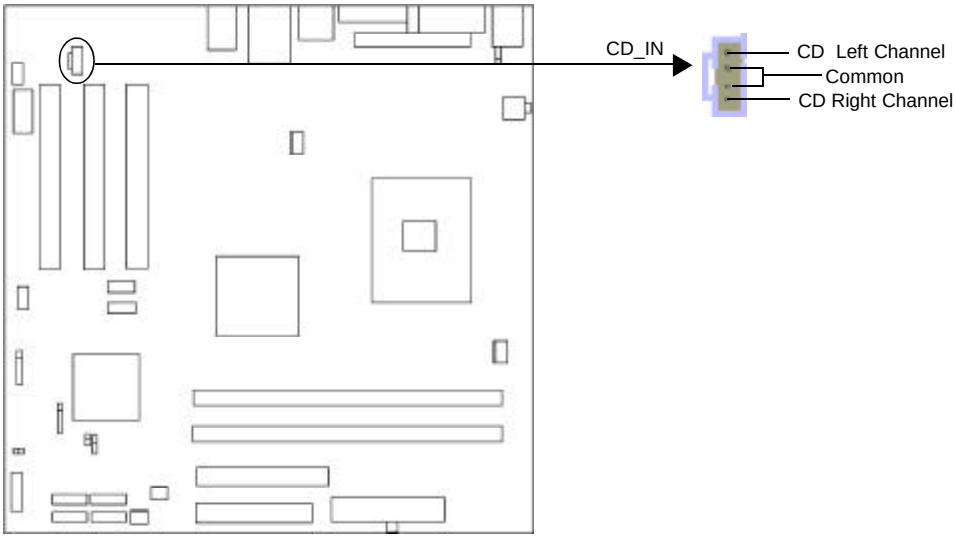
USB5, USB6; USB7, USB8 Connentors and Serial Port Connector(COM2) (optional)

Besides USB1,2,3,4 on the back panel, XV915 series of mainboards also have two headers on board which may connect to front panel USB cable(optional) to provide additional four USB ports. The serial port COM2 is not available on the back panel. Therefore, we provide a 9-pin header.



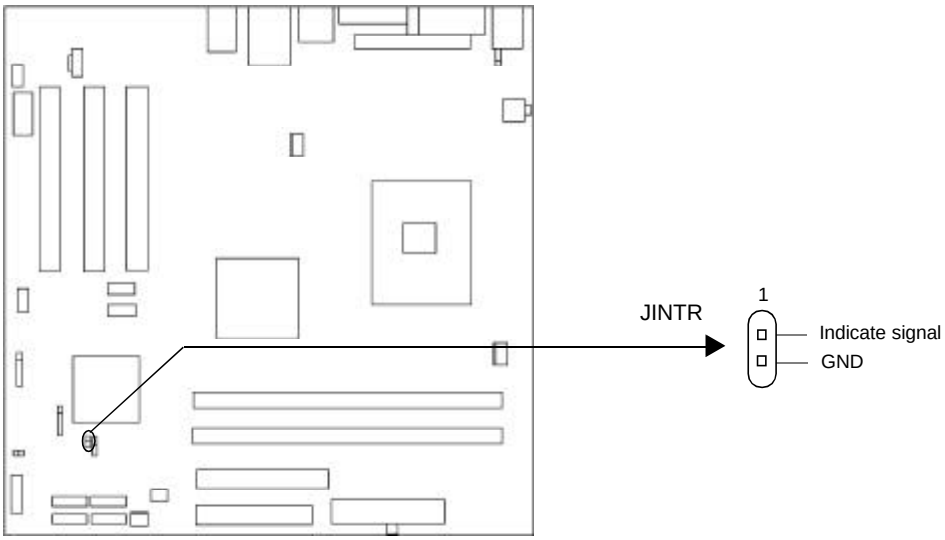
Audio Connectors (CD_IN)

CD_IN is Sony standard CD audio connector, it can be connected to a CD-ROM drive through a CD audio cable.



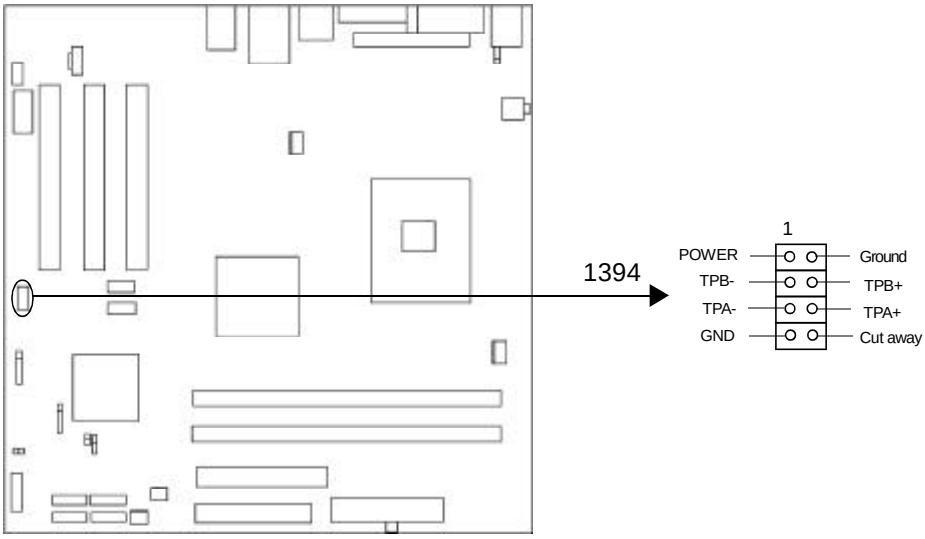
Intruder Detect Switch(JINTR)

The connector connects to the chassis security switch on the case. The system can detect the chassis intrusion through the status of this connector. If the connector has been closed once, the system will send a message over the network to alert the network manager through the on board LAN controller within ICH4.



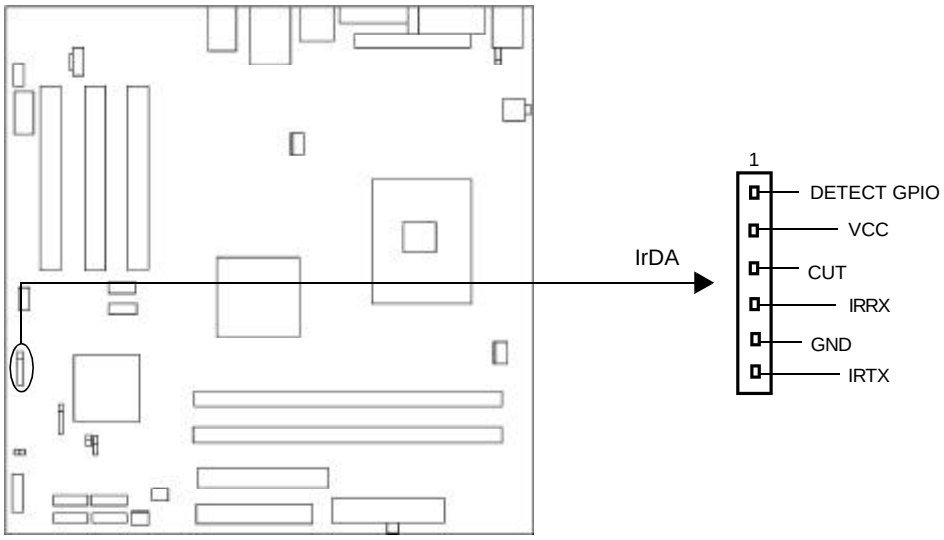
IEEE 1394 port(optional)

The mainboard have one 10-pin header on board to provide IEEE 1394 port.



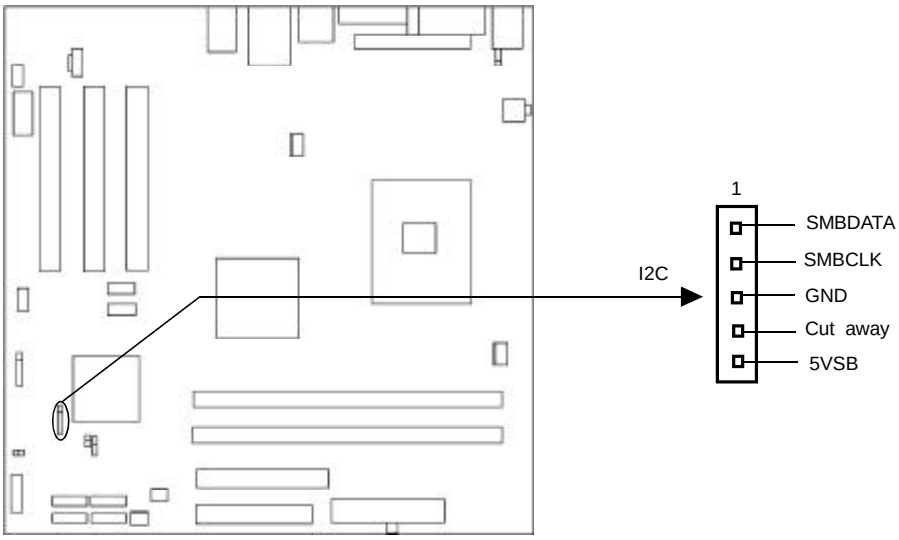
Infrared Header (IrDA)

This connector supports wireless transmitting and receiving device. Before using this function, configure the settings for IR Address, IR Mode and IR IRQ from the "INTEGRATED PERIPHERALS" section of the CMOS SETUP.



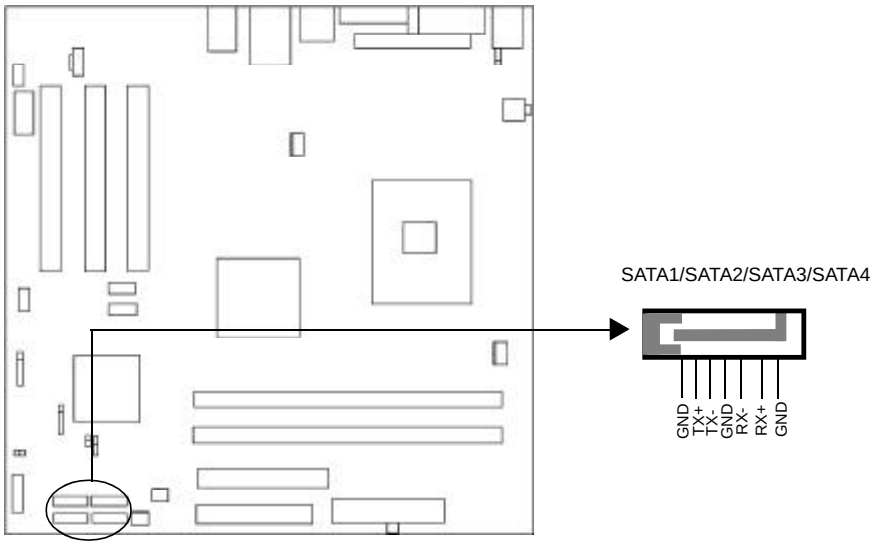
I2C Connector(optional)

The System Management Bus is a specific implementation of I^2C bus, which is a multi-master bus, that is, multiple devices can be connected to the same bus and each one can act as a master by initiating data transfer.



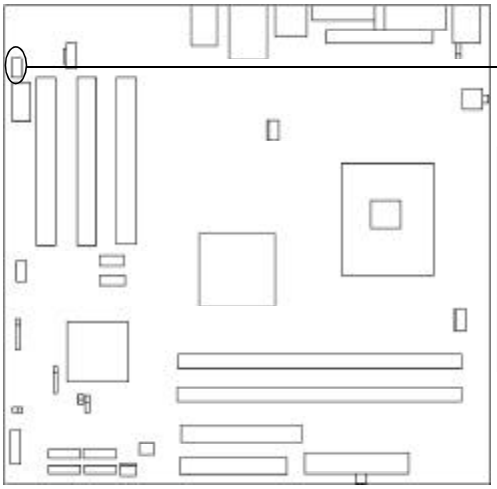
Onboard SATA

The mainboard provides four Serial ATA connectors, SATA is a storage interface that is compliant with SATA 1.0 Specification. With speed of up to 150Mbps. you can connect Serial ATA cable to Serial ATA hard disk.



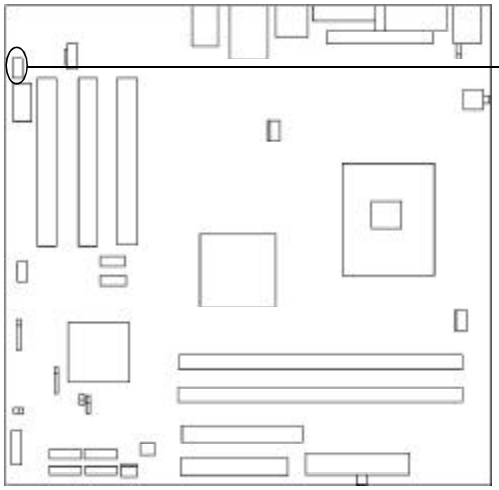
Front Audio Interface(F_AUDIO)

The audio interface provides two kinds of audio output choices: the FrontAudio, the RearAudio. Their priority level is as sequence. When the FrontAudio is available, the RearAudio will be cut off. An onboard amplifier is provided for the earphone. When the FrontAudio is absent, Pin3 and Pin4, Pin5 and Pin6 must be short connected.
Note: the mainboard provides one audio cable.



Pin No.	Symbol	Pin No.	Symbol
1	MIC	2	GND(MIC)
3	Front LINE Out(R)	4	LINE Next(R)
5	Front LINE Out(L)	6	LINE Next(L)
7	GND(fLO)	8	(Cut away)

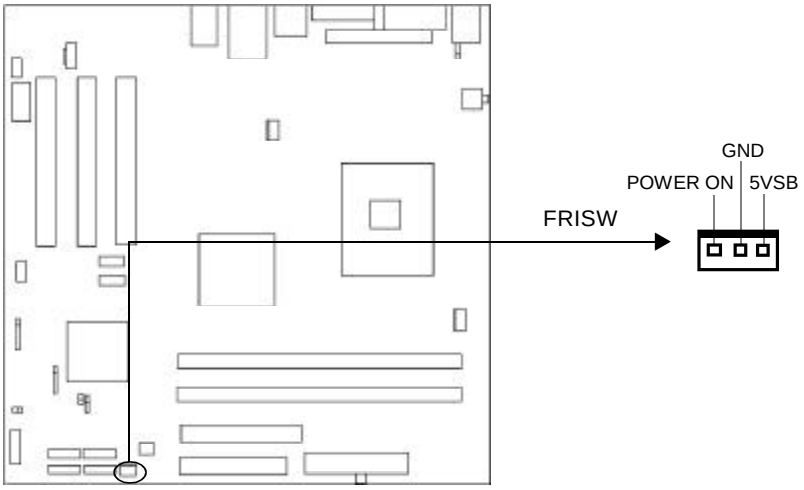
After using audio cable, the definition of pins as follow:
When the FrontAudio is absent, Pin5 and Pin6, Pin9 and Pin10 must be short connected.



Pin No.	Symbol	Pin No.	Symbol
1	AUD_MIC	2	AUD_GND
3	AUD_MIC_BIAS	4	ADU_VCC
5	AUD_FPOUT_R	6	AUD_RET_R
7	NC	8	(Cut away)
9	AUD_FPOUT_L	10	AUD_RET_L

FRISW Connector(FRISW)

The FRISW can connector to front pannel through one cable.



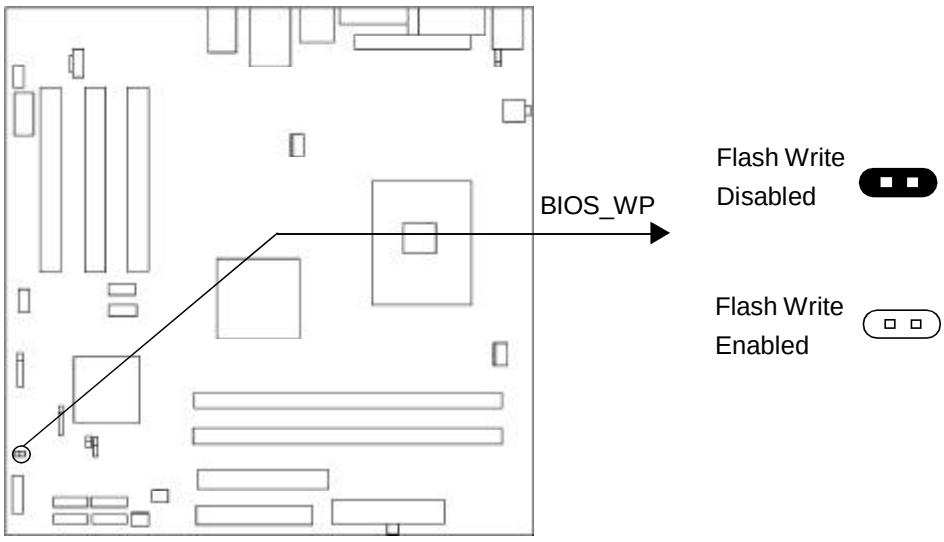
Jumper Settings

Jumpers are located on the mainboard, the clear CMOS jumper CLR_CMOS, enable keyboard password power-on function jumper JKB etc. Pin 1 for all jumpers are located on the side with a thick white line (Pin1→), referring to the mainboard's silkscreen. Jumpers with three pins will be shown as to represent pin1 & pin2 ("1-2") closed and to represent pin2 & pin3 ("2-3") closed.

Jumper	Symbol	Description	Represent
		1-2	set pin1 and pin2 closed
		2-3	set pin2 and pin3 closed
		close	set the pins closed
		open	set the pins opened

BIOS-Protection Jumper (BIOS_WP)

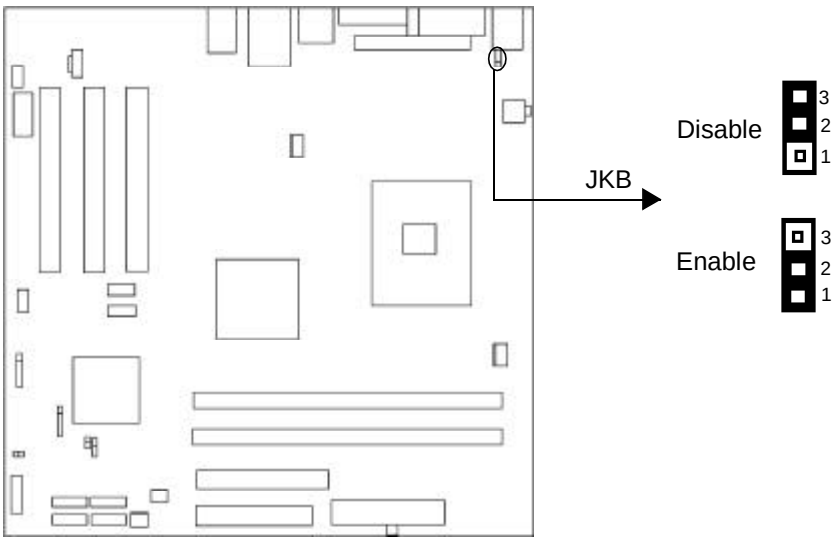
The BIOS of the mainboard is inside the FWH. If the jumper BIOS_WP is set as closed, the system BIOS is protected from being attacked by serious virus such as CIH virus, you will be unable to flash the BIOS to the mainboard in this status.



The DMI (Desktop Management Interface) system information such as the CPU type/ speed, memory size, and expansion cards will be detected by the onboard BIOS and stored in the flash ROM. Whenever the system hardware configuration is changed, DMI information will be updated automatically. However, setting jumper BIOS_WP as closed makes flashing BIOS and updating DMI information impossible. Therefore, set BIOS_WP as open when changing the system hardware configuration, or the error message "Un-known Flash Type" will be displayed on the screen, and DMI information may not be updated.

Enable keyboard password power-on function (JKB)(optional)

The mainboard provides the advanced keyboard password power-on function. Before using this function, set JKB with pin1 & pin2 closed. Otherwise, set JKB with pin2 & pin3 closed for disabling.



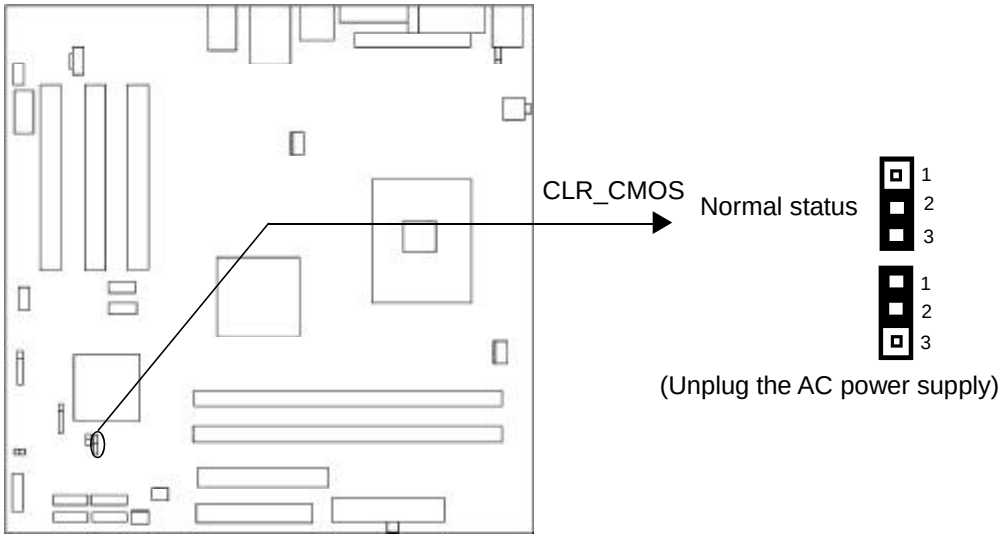
Furthermore in order to implement this function, set “POWER ON Function” to “Password” and enter the keyboard power-on password in the “INTEGRATED PERIPHERALS” section of the CMOS SETUP. Save and exit, then power off your system. In this case, the power button’s power-on function is disabled.

Note:

1. If using this function, 5VSB line of the power supply should be capable of delivering enough current for all the devices connected to the keyboard port, if not, you will be unable to power up the system using the keyboard.
2. If you set JKB with pin2 & pin3 closed, set “POWER ON Function” to BUTTON ONLY, don’t set it to Password, or you’ll be unable to power up your system by the keyboard or the power button.
3. If you encounter the above problems, clear CMOS and set the jumper pin2 and pin3 closed to disable the function,them power on the system by pushing the power button,and set “power on Fuction” back to “Button Only”.

Clear CMOS (CLR_CMOS)

If you want to clear CMOS, unplug the AC power supply first, close CLR_CMOS (pin1 & pin2) once, set CLR_CMOS back to the normal status with pin2 & pin3 connected, then power on the system.



Chapter 3

BIOS Description

The mainboard uses Phoenix AWARD BIOS Setup program that provides a Setup utility for users to modify the basic system configuration. The information is stored in CMOS RAM so it retains the Setup information even if the power is turned off. This chapter provides you with the overview of the BIOS Setup.

AWDFLASH.EXE

This is a flash memory write/read utility used for the purpose of upgrading your BIOS when necessary. Before doing so, please note:

- **We strongly recommend you only upgrade BIOS when encounter problems.**
- **Before upgrading your BIOS, review the description below to avoid making mistakes, destroying the BIOS and resulting in a non-working system.**

When you encounter problems, for example, you find your system does not support the latest CPU released after our current mainboard, you may therefore upgrade the BIOS, please don't forget to set BIOS_WP as open and disable the "Flash Write Protect" item in AWARD BIOS CMOS Setup first .

Follow the steps exactly for a successful upgrade.

1. Create a bootable system floppy diskette by typing Format A:/s from the DOS prompt under DOS6.xx or Windows 9x environment.
2. Copy AWDFLASH.EXE(version>=8.24) from the directory \Utility located on QDI Driver CD to your new bootable diskette.
3. Download the updated BIOS file from the Website (http://www.qdigrp.com). Please be sure to download the suitable BIOS file for your motherboard.
4. Decompress the file download, copy the BIOS file (xx.bin) to the bootable diskette, and note the checksum of this BIOS which is located in readme file.
5. Reboot the system from the bootable diskette created.
6. Then run the AWDFLASH utility at the A**:** prompt as shown below:

   A:\AWDFLASH xxxx.bin

Follow the instruction through the process. Don't turn off power or reset the system until the BIOS upgrade has been completed.

If you require more detailed information concerning AWDFLASH Utility, for example, the different usage of parameters, please type A:\>AWDFLASH /?

Note:

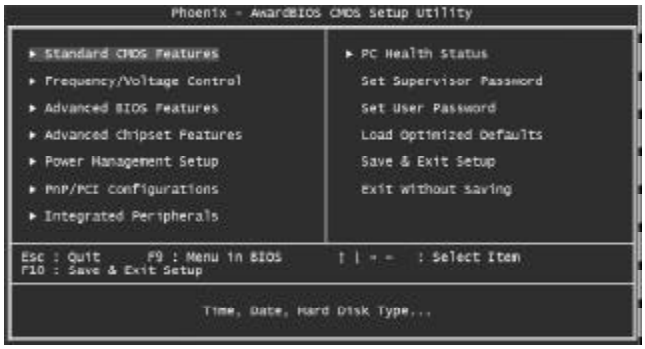
Because the BIOS Software will be updated constantly, the following BIOS screens and descriptions are for reference purposes only and may not reflect your BIOS screens exactly.

AWARD BIOS Description
Entering Setup

Power on the computer, when the following message briefly appears at the bottom of the screen during the POST (Power On Self Test), press <Del> key to enter the AWARD BIOS CMOS Setup Utility.

Press <Del> to enter SETUP

When you have entered, the Main Menu appears on the screen. Use the arrow keys to select among the items and press the <Enter> key to accept or enter the sub-menu.



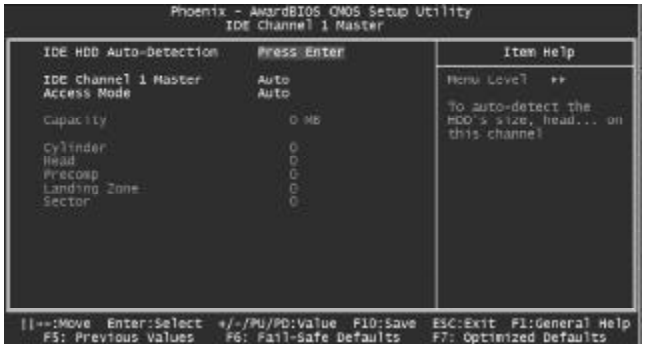
Main Menu

Standard CMOS Features Setup

The basic CMOS settings included in “Standard CMOS Features” are Date, Time, Hard Disk Drive Types, Floppy Disk Drive Types etc. Use the arrow keys to highlight the item, then use the <PgUp> or <PgDn> keys to select the value desired in each item.

Standard CMOS Features Menu

For the items marked, press enter, a window will pop up as shown below. You can view detailed information or make modifications.



IDE Primary Master Setup Menu

Hard Disk

Primary Master/Primary Slave/Secondary Master/Secondary Slave

These categories identify the HDD types of 2 IDE channels installed in the computer system. There are three choices provided for the Enhanced IDE BIOS: None, Auto, and Manual. 'None' means no HDD is installed or set; 'Auto' means the system can auto-detect the hard disk when booting up; by choosing 'Manual', the related information should be entered regarding the following items. Enter the information directly from the keyboard and press < Enter>:

CYLS	number of cylinders	HEAD	number of heads
PRECOMP	write pre-compensation	LANDZ	landing zone
SECTOR	number of sectors	MODE	HDD access mode

Frequency/Voltage Control

This section allows you to configure CPU clock ratio, auto detect PCI clock and spread spectrum.

Advanced BIOS Features

This section allows you to configure your system for basic operation. You have the opportunity to select the system's default speed, boot-up sequence, keyboard operation, shadowing and security.

Advanced Chipset Features

The chipset features setup is used to change the values of the chipset registers. The registers control most of the system options in the computer.

Power Management Setup

The power management setup menu allows you to configure system to most save energy while operating in a manner consistent with your own style of computer use.

PnP/PCI Configurations

This section describes how to configure the PCI bus system. This section covers some very technical items and it is recommended that only experienced users should make any changes to the default setting.

Integrated Peripherals

The integrated peripherals setup allows user to configure the onboard IDE controller, floppy disk controller, the printer port and the serial ports etc..

PC Health Status

The PC health status display CPU and case fan speed.

Set Supervisor/User Password

Changes, sets, or disables password. It allows you to limit access to the system and the setup program.When this function is selected, the following message appears at the center of the screen to assist you in creating a password.

ENTER PASSWORD

Type the password, up to eight characters, and press <Enter>. The password typed now will clear any previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection.

To disable password, just press <Enter> when you are prompted to enter password. A message will confirm the password being disabled. Once the password is disabled, the system will boot and you can enter BIOS Setup freely.

PASSWORD DISABLED

If you have selected "**System**" in "Security Option" of "BIOS Features Setup" menu, you will be prompted for the password every time the system reboots or any time you try to enter BIOS Setup.

If you have selected "**Setup**" at "Security Option" from "BIOS Features Setup" menu, you will be prompted for the password only when you enter BIOS Setup.

Supervisor Password has higher priority than User Password. You can use Supervisor Password when booting the system or entering BIOS Setup to modify all settings. Also you can use User Password when booting the system or entering BIOS Setup but can not modify any setting if Supervisor Password is enabled.

Load Optimized Defaults

The Optimized Defaults are common and efficient. It is recommended users load the optimized defaults first, then modify the needed configuration settings.

Save & Exit Setup

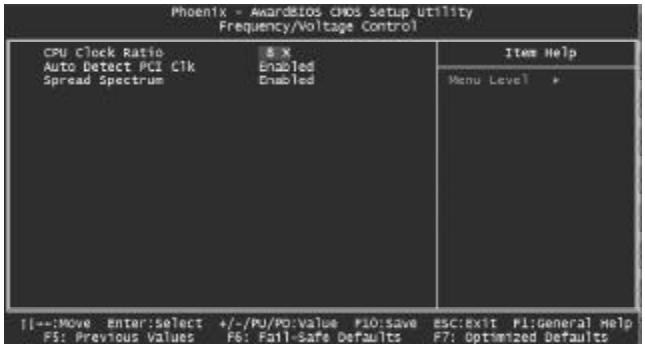
Saves value changes to CMOS and exits setup.

Exit Without Saving

Abandons all CMOS value changes and exits setup.

Note: if you need detailed information about BIOS, please view them in the CD.

Frequency/Voltage Control



Frequency/Voltage Control Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
CPU Clock Ratio	*Min=8* *Max=50*	Select the multiplication of processor core frequency. If a Ratio locked processor is installed, this item will be hidden. This item is only for users understanding all the CPU parameters.
Auto Detect PCI Clk	*Enabled* *Disabled*	Close empty PCI clock to reduce EMI. Do not close empty PCI clock.
Spread Spectrum	*Enabled* *Disabled*	Enable Clock Spread Spectrum to reduce EMI. Disable this function.

Advanced BIOS Features

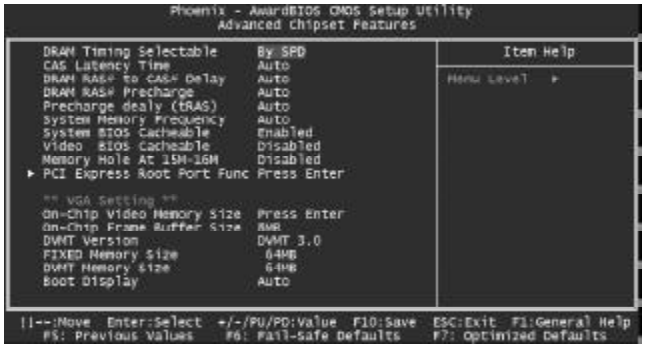
Phoenix - AwardBIOS CMOS Setup Utility
Advanced BIOS Features
CPU Feature Press Enter
Hard Disk Boot Priority Press Enter
Quick Boot Disabled
BIOS Protect Disabled
Virus Warning Disabled
CPU L1 & L2 Cache Enabled
CPU L3 Cache Enabled
Hyper-Threading Technology Enabled
Quick Power On Self Test Enabled
First Boot Device Floppy
Second Boot Device CDROM
Third Boot Device Hard Disk
Boot Other Device Enabled
Swap Floppy Drive Disabled
Boot Up NumLock Status On
Gate A20 Option Fast
Typematic Rate Setting Disabled
x Typematic Rate (Chars/Sec) 6
x Typematic Delay (Msec) 250
Item Help
Menu Level ▸
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

Advanced BIOS Features Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
Hard Disk Boot Priority	*Press Enter*	Press Enter to set Hard Disk Boot Priority.
First (Second, Third) Boot Device Boot Other Device	*Disabled* *Floppy* *LAN*	Select Your Boot Device Priority. It could be Disabled, Floppy, Hard Disk,CDROM, USB-FDD, USB-ZIP, USB-CDROM,LAN
CPU L1&L2 Cache	*Enabled* *Disabled*	Enable CPU L1/L2 cache. Disable CPU L1/L2 cache.
CPU L3 Cache	*Enabled* *Disabled*	Enable CPU L3 cache. Disable CPU L3 cache.
Boot Up NumLock Status	*On* *Off*	Keypad is used as number keys. Keypad is used as arrow keys.
Security Option	*Setup* *System*	Select whether the password is required every time the system boot or only when you enter setup.
HDD S.M.A.R.T. Capability	*Enabled* *Disabled*	Enable hard disk S.M.A.R.T. support. Invalidate this feature.

Advanced Chipset Features

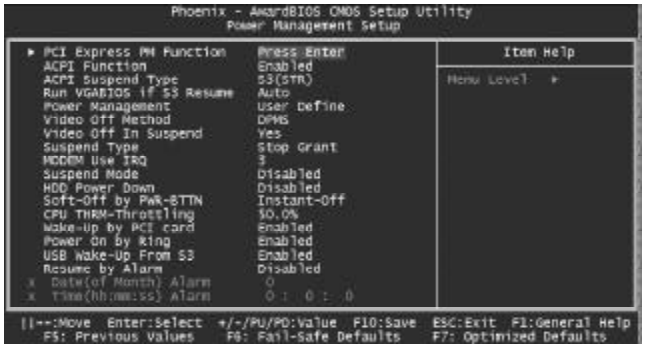

Phoenix - AwardBIOS CMOS Setup Utility
Advanced Chipset Features
DRAM Timing Selectable By SPD
CAS Latency Time Auto
DRAM RAS# to CAS# Delay Auto
DRAM RAS# Precharge Auto
Precharge dealy (tRAS) Auto
System Memory Frequency Auto
System BIOS Cacheable Enabled
Video BIOS Cacheable Disabled
Memory Hole At 15M-16M Disabled
PCI Express Root Port Func Press Enter
** VGA Setting **
On-Chip Video Memory Size Press Enter
On-Chip Frame Buffer Size 8MB
DVMT Version DVMT 3.0
FIXED Memory Size 64MB
DVMT Memory Size 64MB
Boot Display Auto
Item Help
Menu Level ▸
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

Advanced Chipset Features Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
DRAM Timing Selectable	*Manual* *By SPD*	DRAM timing is defined by user. DRAM timing is defined by SPD.
CAS Latency Time	*2,2.5,3* *Auto*	Set CAS latency time.
DRAM RAS# to CAS# Delay	*2,3*,4,5 *Auto*	Set DRAM RAS# to CAS# delay 2 SCLKs , 3 SCLKs,4 SCLKs or 5 SCLKs.
DRAM RAS#Precharge	*2,3,4,5* *Auto*	Set DRAM RAS# precharge as 2,3,4 or 5.
Precharge Delay(tRAS)	*4,5,6,7,8,9,10* *Auto*	Set precharge delay time.
System Memory Frequency	*Auto* *333MHz* *400MHz* *533MHz*	Set memory frequency
System BIOS Cacheable	*Enabled* *Disabled*	Besides conventional memory, the system BIOS areais also cacheable. System BIOS area is not cacheable.

Power Management Setup

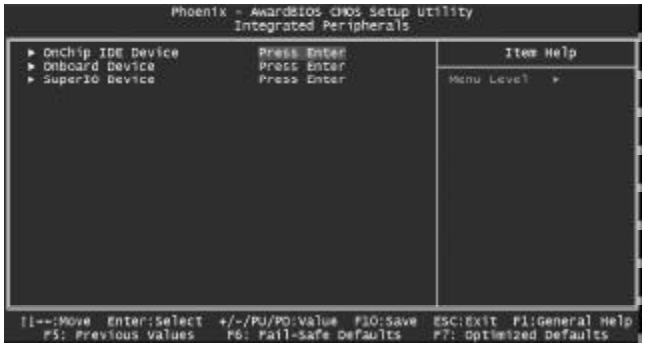


Power Management Setup Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
ACPI function	*Enabled*	Enable ACPI function.
ACPI Suspend Type	*S1(POS)* *S3(STR)* *S1&S3*	Select the ACPI suspend type.
MODEM Use IRQ	*3,4,5,7,9,10,11* *NA*	Special Wake-up event for Modem. This function is not applied.
Suspend Mode	*Disabled* *1Min ~ 1Hour*	The system never enter Suspend mode by timer. Define the continuous idle time before the system enters Suspend mode. If any items defined in “PM Events” are on and activated, the system will be woken up.
Wake-Up by PCI card	*Enabled* *Disabled*	Allow the system to be waked up by PCI card. Do not allow the system to be powered on by PCI card.
Power on by Ring	*Enabled* *Disabled*	Allow the system to be powered on when a Ring indicator signal comes up to COM1 or COM2 from external modem Do not allow Ring wake up.
USB Wake Up from S3	*Enabled* *Disabled*	The system could be waked up by USB devices from the S3 status. The system cannot be waked up by USB devices from the S3 status.

Integrated Peripherals



Integrated Peripherals Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
Onchip IDE device	*Press Enter*	Press Enter to set onchip IDE device.
on-chip Serial ATA setting		
on-chip Serial ATA	*Auto* *Combined Mode* *Enhance Mode* *SATA only* *Disabled*	set onchip SATA mode.
PATA IDE Mode	*Primary* *Secondary*	set PATA IDE mode .
SATA port	*P1,P3 is secondary* *P0,P2 is primary*	set SATA port.
Onboard device	*Press Enter*	Press Enter to set onboard device.
AC97 Audio	*Auto* *Disabled*	If audio codec was installed on board, the AC97 Audio function can be used. otherwise, the function is disabled. Disable the AC97 Audio onboard.
Onboard LAN Device	*Enabled* *Disabled*	Enable onboard LAN device. Disable onboard LAN device.
SuperIO device	*Press Enter*	Press Enter to set superIO device.
Onboard FDC Controller	*Enabled* *Disabled*	Onboard floppy disk controller is enabled. Onboard floppy disk controller is disabled.

PC Health Status

PC Health Status Menu

The following indicates the options for each item and describes their meaning.

Item	Option	Description
• Shutdown Temperature	*60°C/140°F* *65°C/149°F* *70°C/158°F* 75°C/167°F *Disabled*	The system will shut down automatically under the ACPI OS when the CPU temperature reaches the previous setting. The system remains on regardless of how much the CPU temperature is.

Appendix

QDI Utility CD

A QDI Utility CD is supplied with this mainboard, the contents contained in it are showed as below:

1. Driver Install

Using this choice, you can install all the drivers for your mainboard . You should install the drivers in order, and you need to restart your computer until all the drivers are installed.

A. Chipset software
B. USB2.0 Driver
C. Network Driver(optional)
D. Audio Driver
E. DirectX

2. Browse CD

You could read all the contents contained in this CD, including Utility and Documents. The files included in Utility are:

A. Awdflash.exe
B. Cblogo.exe
C. Lf.exe

The files included in Documents are:

A. Adobe Acrobat Reader V5.0

Using 4-/6-Channel Audio(4-/6- Channel Audio Interface)

The motherboard is equipped with Realtek ALC655 chip, which provides support for 6-channel audio output, including 2 Front, 2 Rear, 1 Center and 1 Subwoofer channel. ALC655 allows the board to attach 4 or 6 speakers for better surround sound effect. The section will tell you how to install and use 4/6-channel audio function on the board.

Installing the Audio Driver

The Realtek ALC655 chipset driver has to be installed before the 4-/6-Channel audio function can be used.

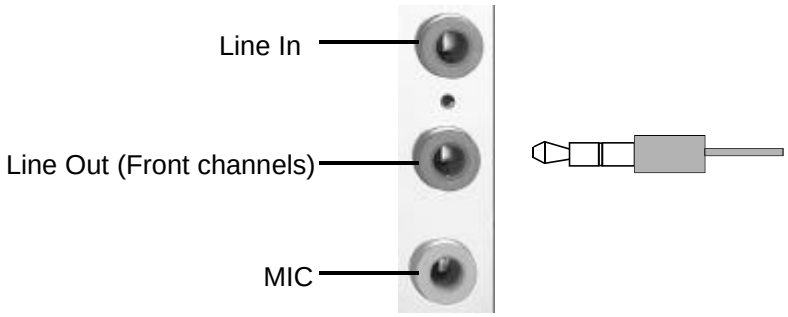
Using 4-/6-channel Audio Function

You can start to use the 4-/6-channel audio function After the driver is installed completely. The first, you can connect 4 or 6 speakers to the audio output connector. Then open utility to set the work parameter.

Attaching speakers

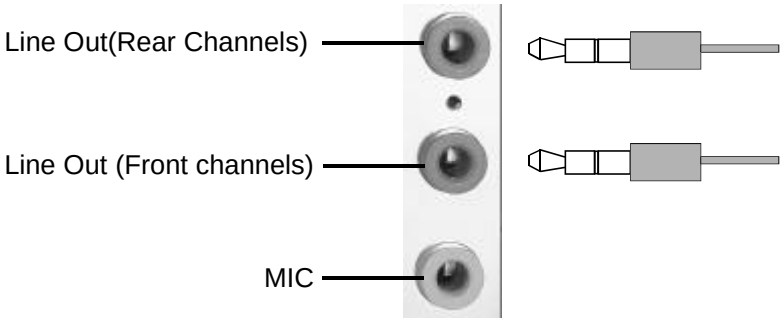
To perform multichannel audio operation, connect multiple speakers to the system. You should connect the same number of speakers as the audio channels you will select in the software utility.

2-Channel Analog Audio Output



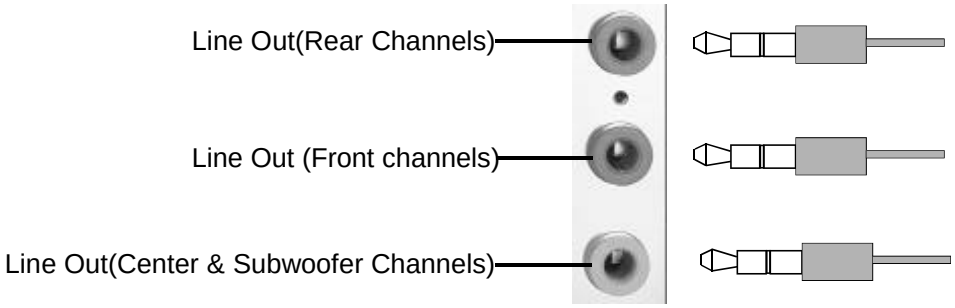
Description: Line Out, Line In and MIC functions all exist under 2-channel configuration.

4-Channel Analog Audio Output



Description: Line In is converted to Line Out function under 4-channel configuration.

6-Channel Analog Audio Output

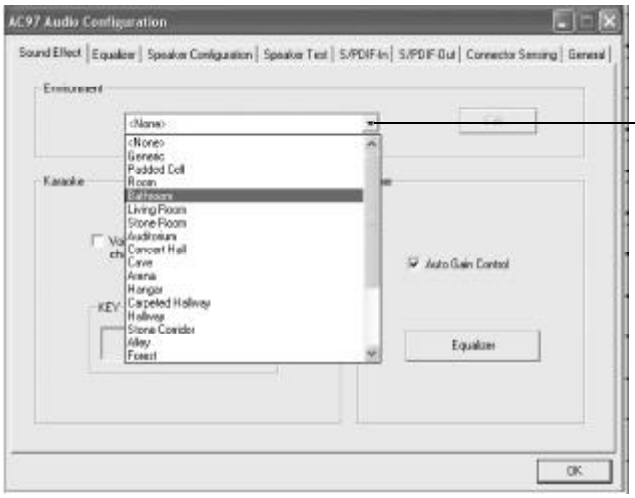


Description: Both Line In and MIC are converted to Line Out function under 6-channel configuration.

Selecting 4- or 6-Channel Setting

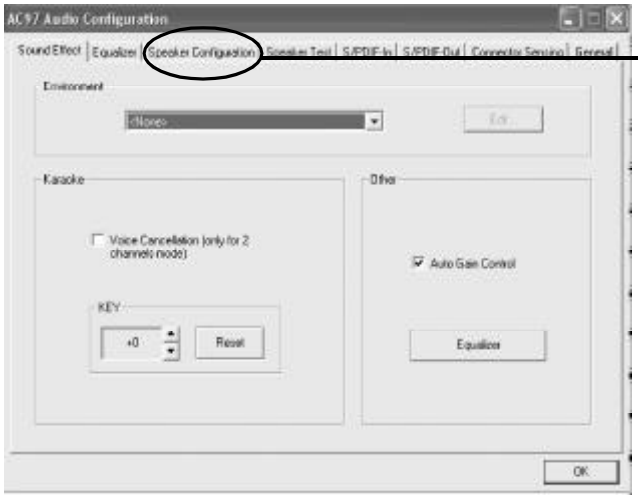
1. Click the audio icon from the window tray at the bottom of the screen.

2. Select any surround sound effect you prefer from the “Environment” pull-down menu under the **Sound Effect** tab.



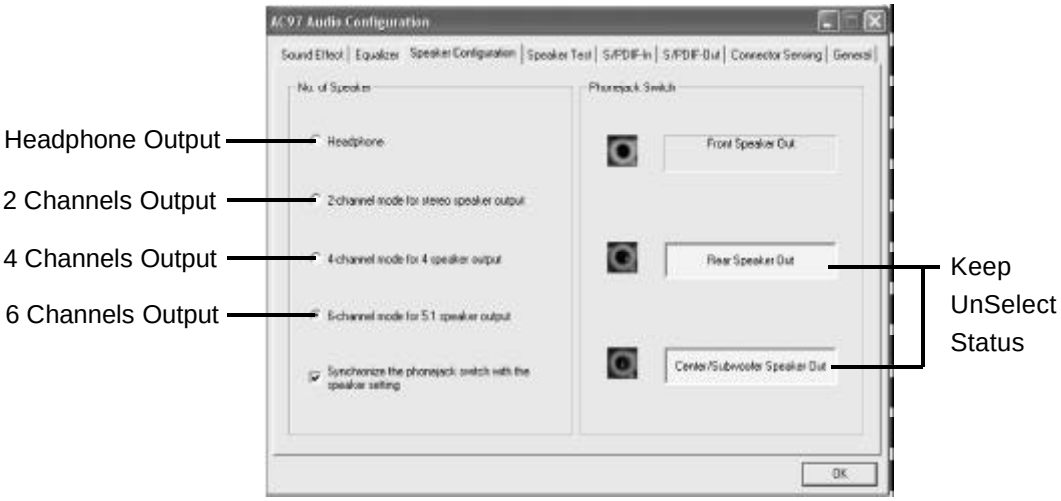
Click here and the pull-down menu will appear

3. Click the **Speaker Configuration** tab.



Click here

4. The following window appears.



5. Select the multi-channel operation you prefer from **No. of Speakers.**
6. Click **OK**

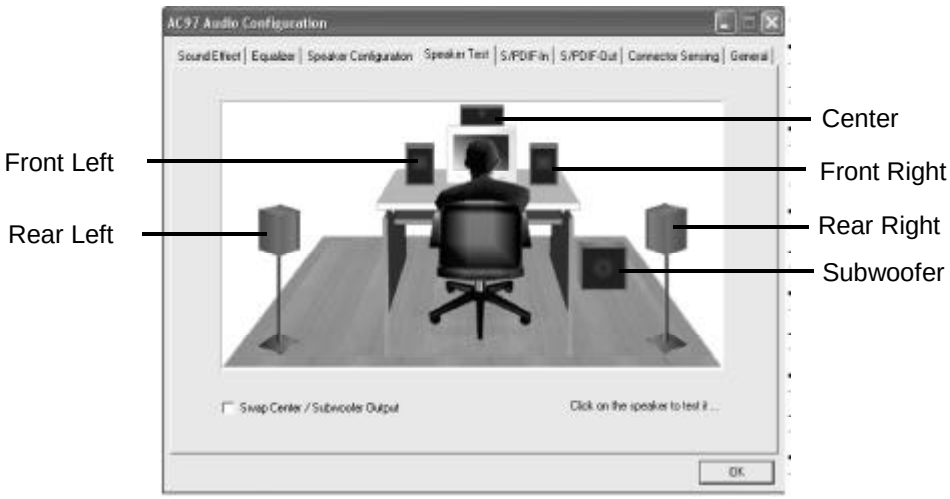
Testing the Connected Speakers

To ensure 4- or 6-channel audio operation works properly, you may need to test each connected speaker to make sure every speaker work properly. If any speaker fails to sound, then check whether the cable is inserted firmly to the connector or replace the bad speakers with good ones.

Testing Each Speaker

1. Click the audio icon from the window tray at the bottom of the screen.
2. Click the **Speaker Test** tab.

3. The following window appears.


AC97 Audio Configuration
Sound Effect | Equalizer | Speaker Configuration | Speaker Test | S/PDIF-In | S/PDIF-Out | Connector Sensing | General
Swap Center / Subwoofer Output
Click on the speaker to test it ...
OK
Front Left
Rear Left
Center
Front Right
Rear Right
Subwoofer

4. Select the speaker which you want to test by clicking on it.

Playing KaraOK

The KaraOK function will automatically remove human voice (lyrics) and leave melody for you to sing the song. **The function is applied only for 2-channel audio operation,** so make sure “2 channels mode” is selected in the “No. of Speakers” column before playing KaraOK.

Playing KaraOK

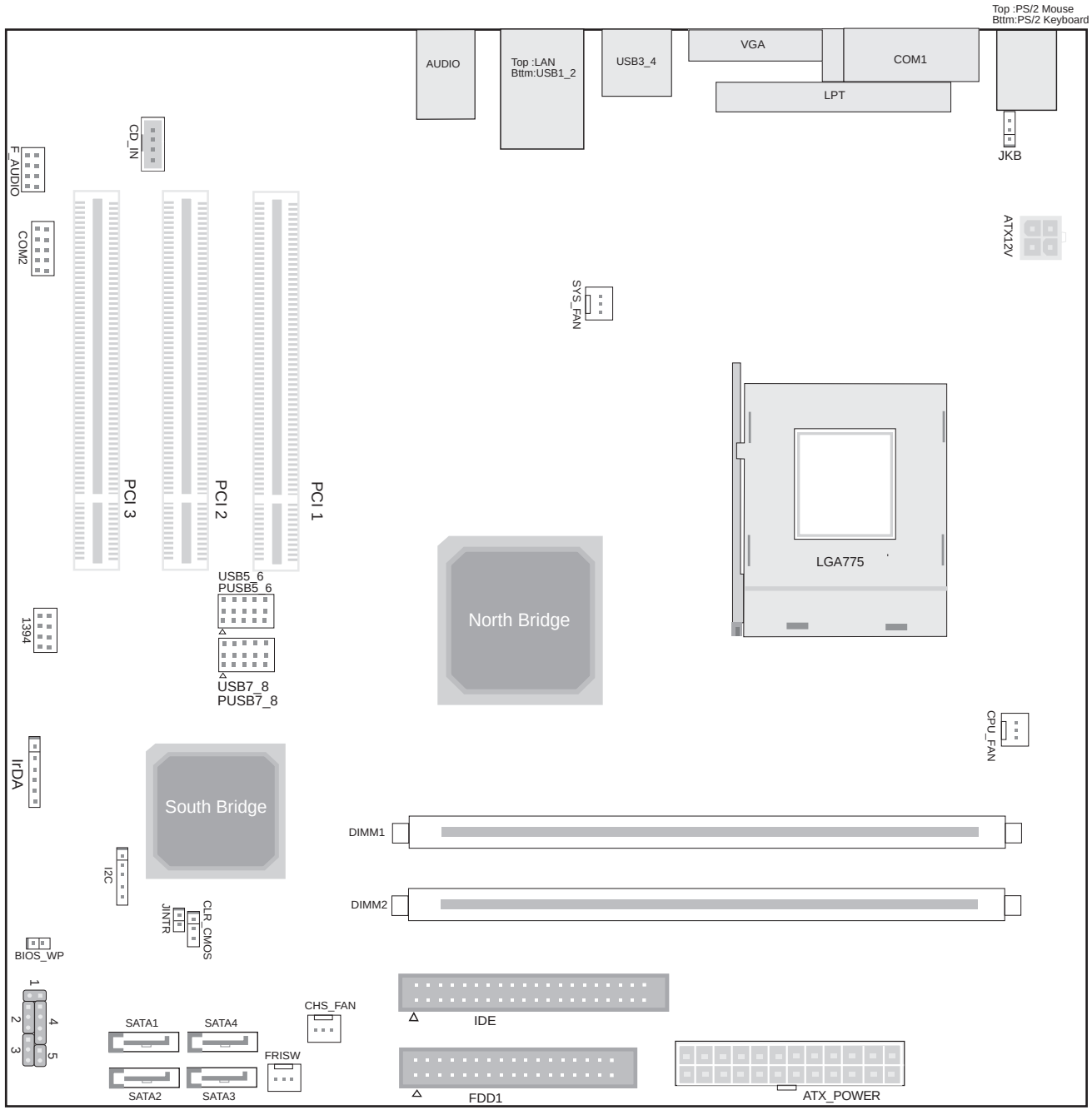
1. Click the audio icon from the window tray at the bottom of the screen.
2. Make sure the **Sound Effect** tab is selected.
3. Select **Voice Cancellation** in the “Karaoke” column.

4. Click **OK**.

Mainboard Layout

XV915

Note:
The layout includes all options.
It is for your reference only.



Note: Pin1 for all jumpers are located on the side with black line.
1. HDD_LED 2. ACPI LED 3. POWER SW 4. SPEAKER 5. RESET